

Sequence Listing
SEQUENCE LISTING

<110> The University of British Columbia

<120> Insect Expression Vectors

<130> 80021-44

<140> US 09/048,911

<141> 1998-03-26

<150> US 60/049,946

<151> 1997-03-27

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<170> PatentIn Ver. 2.0

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<213> *Orgyia pseudotsugata*

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gcactgcaaa aaaacacgct ttgcacgcg ggcccataca tagtacaac tctacgtttc 180

Sequence Listing

gtagactatt ttacataaat agtctacacc gttgtatacg ctccaaatac actaccacac 240

attgaacctt tttgcagtgc aaaaaagtac gtgtcggcag tcacgtaggc cggccttatac 300

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catctgttac agcgacacaa catg 564

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<223> Description of Artificial Sequence: PCR amplifier

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Sequence Listing

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<223> Description of Artificial Sequence: Primer

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Sequence Listing

<211> 67

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<223> Description of Artificial Sequence: Bombyxin
secretion signal oligonucleotide fragment

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aagctta

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<210> 12

<211> 67

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Bombyxin
secretion signal oligonucleotide fragment

<400> 12

ctagtaagct tgttgacacc cacattactg ttgacaacat taatgcaata gcaaggagta 60

tcttcat

67

Sequence Listing

<210> 13

<211> 66

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Enhancer

sequence OpE

<400> 13

cctttcaagc gcgtg'gcac ccgaaaagca gggtcgcgc tgacgcactg ctaaaaatag 60

cacgcg

66

<210> 14

<211> 462

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Promoter

sequence of the OpMNPV ie2 gene

<400> 14

ccccaccacc aacttttttg cactgcaaaa aaacacgctt ttgcacgcgg gcccatacat 60

agtacaaact ctacgtttcg tagactattt tacataaata gtctacaccg ttgtatacgc 120

tccaaatata ctaccacaca ttgaaccttt ttgcagtgc aaaaagtacg tgtcggcagt 180

Sequence Listing

cacgtaggcc ggccttatcg ggtcgcgtcc tgtcacgtac gaatcacatt atcggaccgg 240

acgagtgttg tcttatcgtg acaggacgcc agcttcctgt gttgctaacc gcagccggac 300

gcaactcctt atcggaacag gacgcgcctc catatcagcc gcgcgttacc tcatgcgcgt 360

gaccggacac gaggcgcccg tcccgttat cgcgcctata aatacagccc gcaacgatct 420

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<210> 15

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<223> Description of Artificial Sequence: Fragment of
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tatacagtac aatctctaca aatcgtag 88

<210> 16

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Sequence Listing

<212> DNA

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<223> Description of Artificial Sequence: Fragment of
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acttttttgc attacaaaaa agttcatttt tg

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<210> 17

<211> 12

<212> DNA

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<223> Description of Artificial Sequence: Fragment of
the promoter sequence of the AcMNPV ien gene

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<210> 18

<211> 17

<212> DNA

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Sequence Listing

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<223> Description of Artificial Sequence: Fragment of
the promoter sequence of the AcMNPV ien gene

<400> 18

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<210> 19

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<223> Description of Artificial Sequence: Fragment of
the promoter sequence of the AcMNPV ien gene

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<210> 20

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<212> DNA

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<223> Description of Artificial Sequence: Fragment of

Sequence Listing
the promoter sequence of the AcMNPV ien gene

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<210> 21

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<223> Description of Artificial Sequence: Fragment of
the promoter sequence of the AcMNPV ien gene

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agcctcacag cctagtgaac agtat

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<210> 22

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<223> Description of Artificial Sequence: IE2B promoter
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<400> 22

gacaggacgc

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Sequence Listing

<210> 23

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<223> Description of Artificial Sequence: IE2B promoter
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cttatcgtga caggacgc

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<210> 24

<211> 10

<212> DNA

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<223> Description of Artificial Sequence: IE2B promoter
element

<400> 24

aacaggaagc

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<210> 25

Sequence Listing

<211> 18

<212> DNA

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<223> Description of Artificial Sequence: IE2B promoter
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<400> 25

cttatcggaa caggacgc

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<211> 132

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Native
melanotransferrin (p97) construct

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<222> (1)..(129)

<400> 26

gac tac gtg gcg gcg ctg gaa ggg atg tcg tct cag cag tgc tcg ggc 48
Asp Tyr Val Ala Ala Leu Glu Gly Met Ser Ser Gln Gln Cys Ser Gly
1 5 10 15

Sequence Listing

gca gcg gcc ccg gcg ccc ggg gcg ccc ctg ctc ccg ctg ctg ctg ccc 96
Ala Ala Ala Pro Ala Pro Gly Ala Pro Leu Leu Pro Leu Leu Leu Pro

20 25 30

gcc ctc gcc gcc cgc ctg ctc ccg ccc gcc ctc tga 132
Ala Leu Ala Ala Arg Leu Leu Pro Pro Ala Leu

35 40

<210> 27

<211> 43

<212> PRT

<213> Artificial Sequence

<400> 27

Asp Tyr Val Ala Ala Leu Glu Gly Met Ser Ser Gln Gln Cys Ser Gly

1 5 10 15

Ala Ala Ala Pro Ala Pro Gly Ala Pro Leu Leu Pro Leu Leu Leu Pro

20 25 30

Ala Leu Ala Ala Arg Leu Leu Pro Pro Ala Leu

35 40

<210> 28

<211> 84

<212> DNA

<213> Artificial Sequence

Sequence Listing

<220>

<223> Description of Artificial Sequence: Deletion

construct made of the melanotransferrin (p97) gene

<220>

<221> CDS

<222> (1)..(81)

<400> 28

gac tac gtg gcg gcg ctg gaa ggg atg tcg tct cag cag tgc tcg ggc 48

Asp Tyr Val Ala Ala Leu Glu Gly Met Ser Ser Gln Gln Cys Ser Gly

1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995

1 5 10 15

gca gcg gcc ccg gcg ccc ggg gcg ccc ctg atc tga 84

Ala Ala Ala Pro Ala Pro Gly Ala Pro Leu Ile

20 25

<210> 29

<211> 27

<212> PRT

<213> Artificial Sequence

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Asp Tyr Val Ala Ala Leu Glu Gly Met Ser Ser Gln Gln Cys Ser Gly

1 5 10 15

Ala Ala Ala Pro Ala Pro Gly Ala Pro Leu Ile

20 25

Sequence Listing

<210> 30

<211> 87

<212> DNA

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<223> Description of Artificial Sequence: Deletion
construct made of the melanotransferrin (p97) gene

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gac tac gtg gcg gcg ctg gaa ggg atg tcg tct cag cag tgc tcg ggc 48

Asp Tyr Val Ala Ala Leu Glu Gly Met Ser Ser Gln Gln Cys Ser Gly

1 5 10 15

gca gcg gcc ccg gcg ccc ggg gcg ccc cta tct gac taa 87

Ala Ala Ala Pro Ala Pro Gly Ala Pro Leu Ser Asp

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<213> Artificial Sequence

Sequence Listing

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Asp Tyr Val Ala Ala Leu Glu Gly Met Ser Ser Gln Gln Cys Ser Gly
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Ala Ala Ala Pro Ala Pro Gly Ala Pro Leu Ser Asp
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<210> 32

<211> 72

<212> DNA

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<223> Description of Artificial Sequence: Deletion
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 Asp Tyr Val Ala Ala Leu Glu Gly Met Ser Ser Gln Gln Cys Ser Gly
 1 5 10 15

gca gcg gcc ccg gcg ccc atc tga 72
 Ala Ala Ala Pro Ala Pro Ile

20

Sequence Listing

<210> 33

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<212> PRT

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<400> 33

Asp Tyr Val Ala Ala Leu Glu Gly Met Ser Ser Gln Gln Cys Ser Gly

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Ala Ala Ala Pro Ala Pro Ile

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<210> 34

<211> 69

<212> DNA

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<223> Description of Artificial Sequence:Deletion

construct made of the melanotransferrin (p97) gene

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<222> (1)..(66)

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Sequence Listing

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gca gcg gcc cca tct gac taa

69

Ala Ala Ala Pro Ser Asp

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<211> 22

<212> PRT

<213> Artificial Sequence

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Asp Tyr Val Ala Ala Leu Glu Gly Met Ser Ser Gln Gln Cys Ser Gly

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Ala Ala Ala Pro Ser Asp

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<210> 36

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<223> Description of Artificial Sequence:Deletion

construct made of the melanotransferrin (p97) gene

Sequence Listing

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<222> (1)..(18)

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Asp Tyr Val Ala Ala Ile

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<212> PRT

<213> Artificial Sequence

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<210> 38

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<212> DNA

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<223> Description of Artificial Sequence:Deletion

construct made of the melanotransferrin (p97) gene

Sequence Listing

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<222> (1)..(24)

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Asp Tyr Val Asp Leu Thr Lys Ser

1 5

<210> 39

<211> 8

<212> PRT

<213> Artificial Sequence

<400> 39

Asp Tyr Val Asp Leu Thr Lys Ser

1 5

<210> 40

<211> 29

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Chicken p97

homolog

Sequence Listing

<400> 40

Cys Ser Gly Ala Gly Asn Lys Leu Ile Gln Gln His Leu Leu Val Ile

1 5 10 15

Thr Phe Val Pro Phe Ile Ile Leu Gly Gln Leu Gln Gly

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<210> 41

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Chicken p97
homolog

<400> 41

Cys Ser Gly Ala Val Ser Pro Glu Leu Cys Phe Gln Lys Arg

1 5 10

<210> 42

<211> 56

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Rescued

Sequence Listing

P-element end

<400> 42

cgacgggacc accttatggt atttcatcat gggccagacc cacgtagtcc agcggc 56

<210> 43

<211> 56

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Rescued

P-element end

<400> 43

cgacgggacc accttatggt atttcatcat gtctcgaacc aacgagagca gtatgc 56

<210> 44

<211> 56

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Rescued

P-element end

<400> 44

cgacgggacc accttatggt atttcatcat ggtacagaca tctacttccc cccgct 56

Sequence Listing

<210> 45

<211> 56

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Rescued

P-element end

<400> 45

cgacgggacc accttatggt atttcatcat gatcttgccg tttaaaatgt ggagtc 56

<210> 46

<211> 56

<212> DNA

<213> Artificial Sequence

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P-element end

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<210> 47

Sequence Listing

<211> 56

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<223> Description of Artificial Sequence: Rescued

P-element end

<400> 47

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